

Review Form 3

Journal Name:	Microbiology Research Journal International
Manuscript Number:	Ms_MRJI_127292
Title of the Manuscript:	EXPLORING THE POTENTIAL OF CITRUS PEELS: A COMPARATIVE STUDY OF AGROINDUSTRIAL WASTE
Type of the Article	

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript makes a significant contribution to the fields of sustainable waste management and nutraceutical development. By exploring the valorization of citrus peels, the study not only emphasizes resource efficiency, but also demonstrates innovative applications of agricultural by-products in health, industry, and environmental sustainability. Such research bridges the gap between agro-industrial waste management and the development of bioactive compounds, promoting both environmental and economic benefits. The focus on the antioxidant and antimicrobial properties of citrus peels is highly relevant to addressing global challenges such as food security, waste reduction and the demand for natural health products.	
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, "Exploring the Potential of Citrus Peels: A Comparative Study of Agroindustrial Waste" is clear and relevant. However, to better reflect the focus of the study on bioactive properties and their applications, the following title is proposed: "Valorization of <i>Citrus</i> Peels: antioxidant and antimicrobial applications for sustainable agroindustrial waste management".	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract is informative but could be more structured and focused. Suggestions for improvement: 1. Clearly define the scope of the study, including objectives and methodology. 2. Highlight key findings, such as the comparative antioxidant and antimicrobial properties of the citrus peels. 3. Avoid overly general statements, e.g., about evaluation challenges, unless specifically relevant to citrus peels. Suggested addition: Mention quantitative results, such as the highest antioxidant activity of <i>C. maxima</i> and the significant antimicrobial activity of <i>C. reticulata</i> .	
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientifically sound, with a comprehensive experimental design and relevant techniques (e.g., DPPH assay, disc diffusion for antimicrobial activity). However, some aspects require clarification: - Details on control experiments for quantitative analyses (e.g., standards for antioxidant activity). - More discussion on the limitations of the findings, such as variability in peel composition across species and environmental conditions.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are relevant but could be updated to include more recent studies (post-2020) on citrus peel valorization and applications. Suggested additions: 1. Articles on recent advances in nutraceutical applications of citrus peels. 2. Studies exploring green extraction methods for bioactive compounds. 3. Reviews on sustainable waste valorization techniques.	
Is the language/English quality of the article suitable for scholarly communications?	The language is generally suitable for scholarly communication but requires minor revisions to improve clarity and grammar. Suggestions include: - Refining sentence structure in the introduction and abstract. - Removing redundant phrases for conciseness (e.g., "it's worth noting that...").	
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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